

Problems of Strength in Machinery (Cont.)

SOV/2561

of internal friction in rotating shafts at speeds of rotation above the critical. The author analyzes the rotation of a single-disk weightless shaft vibrating at a frequency low enough to exclude the possibility of deviation of the disk.

Gusarov, A.A. Flexural Unsteady-state Vibrations of a Flexible Rotor With Two Equal Unbalanced Masses

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The author uses a previously obtained solution for the analysis of the transition through critical speeds of a shaft with two disks of equal weight, placed equidistant from the supports, and having differently located disbalance vectors. Two cases are discussed; 1) when the eccentricities of the disks are equal, and 2) when they are unequal. The use of the results for the dynamic balancing of flexible rotors with two equal masses is explained.

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∴ Problems of Strength in Machinery (Cont.)

SOV/2561

Grobov, V. A. Unsteady-state Flexural Vibrations of
Elastically Supported Rotors, Taking the Gyroscopic Effect
Into Account

88

This article is an investigation of the relationship between gyroscopic effect and unsteady-state transverse vibrations of rotors with flexible shafts on elastic bearings during transition through critical speeds. Two cases are treated, one in which the elastic supports have a linear characteristic with equal or different radial rigidity, and one in which one support is rigid, the other is elastic with a nonlinear characteristic, and the coefficients of radial rigidity are the same.

AVAILABLE: Library of Congress

Card 4/4

GO/mg
11-30-59

GROBOV, V.A.

Nonstationary deflection vibrations of elastically supported
rotors taking into consideration the gyroscopic effect. Probl.
proch. v mashinostr. no.1:88-106 '58. (MIRA 12:4)
(Rotors--Vibration)

AUTHOR: Grobov, V.A.

20-119-5-4/59

TITLE: A Method for the Averaging of Canonic Equations With a "Quasicyclic" Angular Coordinate (Metod usredneniya kanonicheskikh uravneniy, soderzhashchikh "kvazitsiklicheskuyu" uglovuyu koordinatu)

PERIODICAL: Doklady Akademii Nauk ^{SSSR}, 1958, Vol 119, Nr 5, pp 858-860 (USSR)

ABSTRACT: Let a dynamic system depend on r coordinates q_1, q_2, \dots, q_r and the angular coordinate φ . Let the canonic motion equations be

$$(1) \frac{dq_k}{dt} = \frac{\partial H}{\partial p_k}, \quad \frac{dp_k}{dt} = -\frac{\partial H}{\partial q_k}; \quad \frac{d\varphi}{dt} = \frac{\partial H}{\partial p_{r+1}}, \quad \frac{dp_{r+1}}{dt} = \mu \frac{\partial H_1}{\partial \varphi},$$

where μ is a small parameter and

$$H = H_0(q, p) + \mu H_1(q, \varphi, p) + \mu^2 H_2(q, \varphi, p) + \dots,$$

where H_0 denotes a certain quadratic form.

According to the asymptotic method of Krylov and Bogolyubov [Ref 2] in the first approximation the author puts

$$(2) \quad q_k^{(1)} = a_k \cos(\varphi + \psi_k),$$

where a_k and ψ_k are considered as slowly variable functions of time. After

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A Method for the Averaging of Canonic Equations With a "Quasicyclic" Angular Coordinate 20-119-5-4/59

some transformations one obtains

$$\begin{aligned} \frac{da_k}{dt} &= F_k(a_1, \dots, a_r, \varphi + \psi_1, \dots, \varphi + \psi_r) \sin(\varphi + \psi_k) \\ (3) \quad \frac{d\psi_k}{dt} &= \frac{1}{a_k} F_k(a_1, \dots, a_r, \varphi + \psi_1, \dots, \varphi + \psi_r) \cos(\varphi + \psi_k). \end{aligned}$$

In order to eliminate the so-called "quasicyclic" variable φ , the functions F_k are averaged, i.e. instead of the variable the mean value of the integral over a period is taken. All calculations are made as it is usual in the asymptotic method of Bogolyubov. Finally the author obtains a system of equations for the determination of the a_k and ψ_k . [Error estimations of this approximate solution are not given.]

There are 3 Soviet references.

PRESENTED: December 2, 1957, by N. N. Bogolyubov, Academician
SUBMITTED: November 18, 1957

Card 2/2

ISSUE I 1961 REPRODUCTION 807/3416

Academy of Sciences. Institute of Mechanics
 Voprosy proizvodstva materialov i konstruktivnykh problemam (Problems of Strength of
 Materials and Structures) Moscow, 1979. 279 p. Extra slip inserted.
 3,000 copies printed.

Prof. M. I. B. Buzdakov, Professor, Doctor of Technical Sciences;
 M. of Publishing House G. S. Gorbunov; Tech. M. I. S. S. Shida.

PREFACE: This book is intended for engineers and scientists concerned with
 the problems of the strength of materials and construction

CONTENTS: The book contains 20 articles on the strength of materials in
 general and of machine construction in particular. This collection
 was prepared under the direction of the Institute of Mechanics of the
 Academy of Sciences of the USSR in honor of Sergey Pavlovich Gorbunov, one of the
 founders and directors of the Institute of Mechanics of the Academy of Sciences.
 The recently completed 30 years of his scientific activity. The preface gives
 a short biography of the author, his scientific and professional activities. The collection
 is divided into two parts. The first part contains 13 articles on general
 problems of strength and the strength of machine construction materials.
 The second part contains 7 articles on dynamics and calculation of
 strength and rigidity. There are references at the end of each article.

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AVAILABLE: Library of Congress

Card 4/6

16(1), 16(2), 24(6)

AUTHOR: Grobov, V.A.

SOV/41-11-2-13/17

TITLE: On the Construction of Asymptotic Approximations of Nonstationary Processes in Nonlinear Gyroscopic Systems With the Aid of the Averaging Principle

PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, Nr 2, pp 213-216 (USSR)

ABSTRACT: The author shows that instationary oscillations of nonlinear gyroscopic systems can be investigated with the aid of the averaging principle of N.M.Krylov and N.N.Bogolyubov, if the motion equations are brought to a special form according to the method of B.V.Bulgakov by the introduction of the so-called "normal coordinates". The first approximations for amplitudes and phases obtained in this manner are given by the author separately for autonomous and non-autonomous systems. The author mentions Yu.A.Mitropol'skiy. There are 4 Soviet references.

SUBMITTED: November 20, 1958

Card 1/1

GROBOV, V.A. [Hrobov, V.O.] (Riga)

Nonstationary vibrations of a flexible shaft on elastic supports
taking the gyroscopic effect into consideration. Prikl.mekh. 6
no.1:20-30 '60. (MIRA 13:6)
(Rotors--Vibration)

GROBOV, V. A.

"Nonlinear problems of turbine rotor dynamics"

Paper presented at the Intl. Symposium on Nonlinear Vibrations, Kiev, USSR,
9-19 Sep 61

Institute of Mathematics of Academy of Sciences of the Ukrainian SSR, Kiev,
USSR

GROBOV, Valerian Aleksandrovich; ARTOBOLYEVSKIY, I.I., akademik, otv. red.;
DIKUSHIN, V.I., akademik; red.; SERESEN, S.V., akademik, red.;
PINEGIN, S.V., doktor tekhn. nauk, prof., red.; LEVITSKIY, A.I.,
doktor tekhn. nauk, prof., red.; DIMENTBERG, F.M., doktor tekhn.
nauk, red.; KOBRINSKIY, A.Ye., doktor tekhn. nauk, red.;
RAYEVSKIY, N.P., kand. tekhn. nauk, red.; HESSONOV, A.P., kand. tekhn.
nauk, red.; ORPIK, S.L., red. izd-va; LAUT, V.G., tekhn. red.

[Asymtotic methods for calculating bending vibrations of turbo-
machine rotors] Asimptomicheskie metody rascheta izgibnykh ko-
lebanii valov turbomashin. Moskva, Izd-vo Akad. nauk SSSR,
1961. 165 p. (MIRA 14:5)

1. Akademiya nauk USSR (for Serensen)
(Impellers--Vibration)

SERENSEN, Sergey Vladimirovich, akademik; BUGLOV, Yevgeniy Georgiyevich;
GARF, Mikhail Ernestovich; KOZLOV, Leonid Aleksandrovich;
KORSAKEVICH, Nikolay Ivanovich; KRAMARENKO, Oksana Yur'yevna;
SLUTSKAYA, Ol'ga Borisovna; GROBOV, V.A., doktor tekhn. nauk,
red.; PECHKOVSKAYA, O.M., red. izd-va; SKLIYAROVA, V.Ye.,
tekhn. red.

[Strength under nonstationary loading conditions] Prochnost' pri
nestatsionarnykh rezhimakh nagruzki. Kiev, Izd-vo Akad. nauk
USSR, 1961. 294 p. (MIRA 15:2)

1. Akademiya nauk USSR (for Serensen).
(Strains and stresses) (Metals—Fatigue)

GROBOV, V.A. (Riga)

Calculating amplitudes of lateral vibrations of multidisk rotors
supported by nonlinearly flexible supports. Izv.AN SSSR.Otd.tekh.nauk.
Mekh.i mashinostr. no.3:113-116 My-Je '61. (MIRA 14:6)
(Rotors—Vibration)

25178

S/041/61/013/002/006/007
B112/B203

16.3400

AUTHOR:

Grobov, V. A.

TITLE:

Unsteady oscillations of nonlinear systems with gyroscopic terms in consideration of the connection with an energy source of low productivity

PERIODICAL:

Ukrainskiy matematicheskii zhurnal, v. 13, no. 2, 1961,
220 - 223

TEXT: The equations of oscillation of the system considered are the differential equations:

$$\sum_{j=1}^n \{a_{ij}(\tau)\ddot{q}_j + b_{ij}(\tau)\dot{q}_j + c_{ij}(\tau)q_j\} =$$

$$= Q_i(t; q_1, q_2, \dots, q_n; \dot{q}_1, \dot{q}_2, \dots, \dot{q}_n) + F_i(t, q_1, q_2, \dots, q_n, \dot{q}_1, \dot{q}_2, \dots, \dot{q}_n). \quad (1)$$

whose coefficients weakly depend on time, and satisfy the conditions:

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Unsteady oscillations of ²⁵¹⁷⁸nonlinear...

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$a_{ij}(\tau) = a_{ji}(\tau)$, $b_{ij}(\tau) = -b_{ji}(\tau)$, $c_{ij}(\tau) = c_{ji}(\tau)$. μ is a small parameter. The equation for the autorotation of the system is:

$$J_0 \frac{d^2 \varphi}{dt^2} = \mu \Phi(\tau; q_1, \dots, q_n; \dot{q}_1, \dots, \dot{q}_n; \ddot{q}_1, \dots, \ddot{q}_n; \varphi, \dot{\varphi}, \ddot{\varphi}) + \mu \Delta M(\dot{\varphi}), \quad (2)$$

where J_0 is the moment of inertia of the rotor with respect to the axis of rotation, $\Delta M(\dot{\varphi})$ is a small additional moment, and $d\varphi/dt = \omega(t)$ the angular velocity of the rotor. The nonlinear functions μQ_i in Eq. (1) express weak elastic and dissipative forces, the functions μF_i weak disturbances, the function $\mu \psi$ the interrelation between the oscillatory and the rotational motion of the system, i. e., the possibility of an energy exchange between oscillation and rotation. The author sets up the solutions of Eq. (1) in first approximation:

$$q_j^{(k)} = a_k \sigma_{jk}(\tau) e^{i(\varphi + \psi_k)} + a_k^* \sigma_{jk}^*(\tau) e^{-i(\varphi + \psi_k)}, \quad (3)$$

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where $\delta_{jk} = (\bar{\sigma}_{jk} + i_{jk})/2$ are the fundamental solutions of the undisturbed system (1), σ_{jk} the conjugate complex functions with respect to $\bar{\sigma}_{jk}$. The amplitude a_k and the phase angle ψ_k can be determined in first approximation from the equations:

$$da_k / dt = \mu A_1^{(k)}(\tau, a_k, \psi_k, \omega),$$

$$d\psi_k / dt = \Lambda_k - \omega + \mu B_1^{(k)}(\tau, a_k, \psi_k, \omega), \quad (4)$$

the functions $A_1^{(k)}$ and $B_1^{(k)}$ appearing in them, from the system of equations

$$\begin{aligned} m_1^{(k)}(\tau) [\lambda_k(\tau) - \omega(\tau)] \frac{\partial A_1^{(k)}}{\partial \psi_k} - [2m_1^{(k)}(\tau) \lambda_k(\tau) + m_2^{(k)}(\tau)] B_1^{(k)} = \\ = -m_3^{(k)}(\tau) a_k + \frac{\mu}{2\pi} \int_0^{2\pi} \sum_{i=1}^n [Q_i + F_i] [\bar{\sigma}_{i,k}(\tau) \cos \theta_k - \bar{\sigma}_{i,k}(\tau) \sin \theta_k] d\theta_k. \end{aligned}$$

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$$\begin{aligned} m_1^{(h)}(\tau) [\lambda_h(\tau) - \omega(\tau)] a_h \frac{\partial B_1^{(h)}}{\partial \psi_h} + [2m_1^{(h)}(\tau) \lambda_h(\tau) + m_2^{(h)}(\tau)] A_1^{(h)} = \\ = - \left[\frac{d}{d\tau} (m_1^{(h)}(\tau) \lambda_h(\tau)) + m_3^{(h)}(\tau) \right] a_h - \\ - \frac{\mu}{2\pi} \int_0^{2\pi} \sum_{i=1}^n (Q_i + F_i) [\bar{\sigma}_{ih}(\tau) \sin \theta_h + \bar{\sigma}_{ih}(\tau) \cos \theta_h] d\theta_h. \end{aligned} \quad (6)$$

where

$$m_1^{(h)}(\tau) = \sum_{l=1}^n \sum_{j=1}^n a_{lj}(\tau) \sigma_{lh}(\tau) \sigma_{jh}^*(\tau),$$

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Unsteady oscillations of nonlinear...

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$$im_j^{(1)}(\tau) = \sum_{i=1}^n \sum_{l=1}^n b_{il}(\tau) \sigma_{il}(\tau) \sigma_{jl}^*(\tau).$$

$$m_j^{(1)}(\tau) = \sum_{i=1}^n \sum_{l=1}^n b_{il}(\tau) \frac{d\sigma_{il}(\tau)}{d\tau} \sigma_{jl}^*(\tau) = \bar{m}_j^{(1)}(\tau) + i\bar{m}_j^{(2)}(\tau).$$

Eq. (2) can be substituted by the equations:

$$J_0 \frac{d\tilde{\phi}}{dt} = \mu \tilde{\phi}(\tau, a_k, \psi_k, \dots) + \mu \Delta M(\Omega), \quad (10)$$

where $\tilde{\phi}$ is the mean value of ϕ . There are 6 Soviet-bloc references.

SUBMITTED: October 25, 1960

Card 5/5

45685

S/681/62/000/008/003/004
E081/E141

26.2.20

AUTHOR: Grobov, V.A.

TITLE: Joint transverse vibrations of a shaft and massive elastic supports, allowing for the gyroscopic effect of the rotor

SOURCE: Akademiya nauk Latvyskoy SSR. Institut avtomatiki i mekhaniki. Voprosy dinamiki i prochnosti. no.8, 1962, 61-65

TEXT: The problem arises in connection with the determination of the frequency spectrum of vibrations in turbine equipment. For purposes of mathematical analysis, the actual system is replaced by a simplified system consisting of a flexible weightless shaft carrying an unbalanced disc unsymmetrically situated with respect to the supports, which are simulated by concentrated masses situated at the end of the shaft, and connected to an immovable foundation by two springs. Expressions are derived for the kinetic and potential energies and, assuming that the static and dynamic unbalance of the disc are small, the characteristic

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Joint transverse vibrations of ...

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vibration equation is obtained as an 8×8 determinant. The particular case corresponding to identical rigidities of the supports in the radial direction is considered in detail, the modes of vibration are established and described, and resonance curves are calculated. Formulae for the amplitude of vibration are given, derived by the asymptotic method of N.N. Bogolyubov and Yu.A. Litropol'skiy (Asimptoticheskiye metody v teorii nelineynykh kolebaniya (Asymptotic methods in the theory of nonlinear vibrations), Fizmatgiz, 1958). The effect of nonlinear characteristics in the supports is also analysed. There are 5 figures.

Card 2/2

BURGVITS, A.G.; ZAV'YALOV, G.A.; GORBOV, V.A., doktor tekhn.nauk, retsenzent
GORBOV, P.S., kand.tekhn.nauk, red.

[Stability of shaft motion in fluid friction bearings]

Ustoichivost' dvizhenia valov v podshipnikakh zhidkost-
nogo trenia. Moskva, Izd-vo "Mashinostroenie" 1964. 146 p.
(IRA 17:7)

GROPOV, V. I. , comp.

Manual for the car inspector 5. izd., ispr. i d p. Moskva, Gos. transp. ahel-dor.
izd-vo, 1952. 207 p. (5h-19699)

TF600.R9 1952

LAPSHIN, F.A., GROBOV, V.I.

[Construction, inspection and repair of railroad cars] Ustroistvo, osmotr i
remont vagonov. Moskva, Gos. transp. zhel-dor. izd-vo, 1953. 413 p.
(MIRA 6:9)
(Railroads--Cars)

GROBOV, V I.

LAPSHIN, Fedor Alekseyevich; ~~GROBOV, Vladimir Ivanovich; BOCHARNIKOVA, K.N.,~~
redaktor; VERINA, G.P., ~~tekhnicheskii redaktor~~

[Construction, inspection, and repair of railroad cars] Ustroistvo,
osmotr i remont vagonov. Izd. 2-e, ispr. i diop. Moskva, Gos. transp.
zhel-dor. izd-vo 1954. 429 p. (MLRA 8:4)
(Railroads--Cars)

LAPSHIN, Fedor Alekseyevich; ~~ORCOBOV~~, Vladimir Ivanovich; BRAYLOVSKIY, N.G., inzh.,
red.; BOBROVA, Ye.N., tekhn.red.

[Construction and maintenance of cars] Ustroistvo i remont
vagonov. Izd. 3-e, ispr. i dop. Moskva, Gos.transp.zhel-dor.
izd-vo, 1958. 447 p. (MIRA 12:2)
(Railroads--Cars)

GROBOV, Yc 6

25(1)

PHASE I BOOK EXPLOITATION

SOV/1370

Ural'skiy zavod tyazhelogo mashinostroyeniya, Sverdlovsk

Proizvodstvo krupnykh otlivok (Making of Large Castings) Moscow,
Mashgiz, 1958. 108 p. (Series: Its: Sbornik statey, vyp. 4)
5,500 copies printed.

Ed.: Fetisov, I.M., Engineer; Exec. Ed. (Siberian Division, Mashgiz):
Kaletina, A.V., Engineer; Tech. Ed.: Dugina, N.A.

PURPOSE: The book is prepared by the Plant organization of NTOMashprom
(Scientific and Technical Society of Machine Building Industry) and
is intended for engineering and scientific workers.

COVERAGE: The book was prepared for the 25th Anniversary of the
Uralsmashzavod (Ural Heavy Heavy Machinery Building plant imeni
S. Ordzhonikidze). The stages of founding development in the plant
and the plant's progress and achievements in this field are described.

Card 1/3

Making of Large Castings

SOV/1370

The book includes articles on the most interesting research work concerning improvement of the quality of castings and economy of labor. The results of an investigation of the causes of cracks in castings weighing up to 80 tons are presented; the nature of stone-like fractures and methods for combating them are described; experience in hardening molds and cores is analyzed. Also described is oxygen heating-up of cast iron in the spout of a cupola furnace. No personalities are mentioned. There are no references.

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Making of large Castings

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AVAILABLE: Library of Congress

Card 3/3

GO/ksv
4-21-59

SOV/81-59-16-57869

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 310 (USSR)

AUTHOR: Grobov, Ye.B.

TITLE: The Chemical Hardening of Molds and Cores

PERIODICAL: Sb. statey. Ural'skiy z-d tyazh. mashinostr. im. S. Ordzhonikidze, 1958, Nr 4, pp 28-47

ABSTRACT: The properties of a molding mixture which is based on liquid glass are investigated. They are studied after chemical hardening as a function of the duration of blowing (1 sec - 5 min) and the CO₂ pressure (from 1 to 4 atm), the duration of keeping in the air before and after chemical hardening at various temperatures, modules of the liquid glass, etc.

G. Maslennikova.

Card 1/1

GROBOVA, K.I.; SLEPTSOVA, O.M.

Synthesis of β -monomethacrylic ester of glycerol. Trudy po khim.i
khim.tekh. no.1:172-173 '63. (MIRA 17:12)

SLEPTSOVA, O.M.; GROBOVA, K.I.; KOTON, M.M.

Synthesis of unsaturated esters of hydroxamic acids. Zhur. ob.
khim. 33 no.8:2568-2570 Ag '63. (MIRA 16:11)

KALIMULLIN, B.G., otv. red.; LOKHTUROV, P.P., red.; YEFIMOV, V.N.,
red.; GROBOVA, Yu.P., red.; SHAFIN, I.G., tekhn. red.

[Problems of designing and building in Ufa] Voprosy planirovki i zastroiki Ufy. Ufa, 1961. 78 p.

(MIRA 17:3)

1. Geograficheskoye obshchestvo SSSR. Bashkirskiy filial.
2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Kalimullin).

BAGTANOV, K.Sh.; ARDASHOVA, G.I.; MIKYULOV, V.S.; KHATIBULIN,
G.M., doktor sel'khoz. nauk, otv. red.; GROMOVA, Yu.P.,
red.

[Distribution and economic effectiveness of the production
of industrial crops in Bashkiria] Razmeshchenie i ekonomi-
cheskaya effektivnost' proizvodstva tekhnicheskikh kul'tur
v Bashkirii. Ufa, Bashkirskii filial AN SSSR, 1963. 54 p.
(MIRA 17:6)

GROBOVIKOV, Yu.A.

Deep-water echo-sounder "Polius." Probl.Arkt.i Antarkt. no.10:
90-91 '62. (MIRA 16:2)
(Deep-sea sounding)

YAGOLA, G.K.; ZINGERMAN, V.I.; GROBOVITSKIY, M.I.; SEPETYY, V.N.

Testing samples of hard-magnetic materials subjected to pulsed
magnetization. Izv. tekhn. no.1:40-43 Ja '65. (MIRA 18:4)

GROBOVITSKIY, Ye. B., KILMAN, I. Ya. and VILITSKY, Y. L.

"Apparatus for the Graphic Recording of Changes in the Diameter of Blood Vessels During Physiological Experiment." *Farmakol i Toksikol*, No. 2, p. 57, 1961.

IRSI-1000-21

Mowing of land from rail wire in the course of rail-land. (COM
FROTHING, No. 1, No. 3/4, Sept. 1/4. 11/11/11, 11/11/11)

CC: Monthly List of 1st Group in 11/11/11, 11/11/11, 11/11/11, 11/11/11,
11/11/11, 11/11/11.

GROBOWSKA, Helena; GROMSKA, Jadwiga

Convulsions in children according to the material of the Mental
Disease Clinic in Gdansk. Neurol. neurochir. psychiat. pol.
13 no.6:867-871 N-D'63

1. Z Oddzialu Dzieciecego Kliniki Chorob Psychiczych AM w
Gdansku; kierownik: prof.dr. T.Bilikiewicz.

*

GROBSHTEYN, A.S.

Using magnetoelastic pickups to measure the weight of a drilling tool.
Izv. vys. ucheb. zav.; neft' i gaz 8 no.6:105-109 '65. (MIRA 18:7)

1. Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova.

GRODSHTEYN, A.Ye.; ZHOLOBOV, S.P.; IPATOVA, M.D.

Sorption of carbon dioxide from porous active metals by
absorbents. Zhur. prikl. khim. 38 no.4:900-905 Ap '65.
(MIRA 18:6)

GRODSHTEYN, A.Y.; 1942, S.S.; 1942, SYN, .P.

RECEIVED FOR THE RECORD OF THE DEPARTMENT OF STATE
AND THE SECRETARY OF DEFENSE BY 165.

1. With regard to the above, I am happy to say that the
information is being furnished to the appropriate
authorities.

GROBSHTEYN, F. I.

USSR/ Chemistry - Physical chemistry

Card : 1/1 Pub. 116 - 6/20

Authors : Yurzhenko, A. I. and Grobshteyn, F. I.

Title : Rate of decomposition of tertiary butyl peroxides in an aqueous medium

Periodical : Ukr. khim. zhur. 20, Ed. 4, 373 - 380, 1954

Abstract : The rate of decomposition of tertiary butyl peroxides (peroxide widely used as initiator of emulsion polymerization) in an aqueous medium, was investigated in the presence of various electrolytes and emulsified hydrocarbons. The effect of H- and OH-ions on the rate of decomposition of the investigated peroxide and the effect of salts on the catalytic characteristics of these ions, are explained. The specific effect of emulsifiers and their dependence upon the chemical nature of their molecules, were established. Six references: 5-USSR; 1-Ukrainian, which includes 1-English; 1-USA; 1-German; and 1-Italian, (1931-1952). Tables: graphs.

Institution : Institute of Medicine, Faculty of Gen. Chemistry, Lvov

Submitted : April 3, 1953

GROBSHTEYN, ^NM.Kh.

Concerning so-called "trifles." Geog. v shkolo 19 no.2:65
Mr-Ap '56. (MLRA 9:7)
(Geography--Study and teaching)

GROBSHTEYN, N.Kh., zaveduyushchiy kabinetom geografii; GOLDIN, A.S.,
nauchnyy sotrudnik

Brief news. Geog. v shkole 22 no.2:87 Mr-Apr '59.

(MIRA 12:6)

1. Smolenskiy oblastnoy institut usovershanstvovaniya uchiteley
(for Grobshteyn). 2. Muzei zhenlevedeniya Moskovskogo gosudar-
stvennogo universiteta (for Goldin).

(Smolensk Province--Geography--Study and teaching)
(Globes)

GROBSHTEYN, Naum Khatskelevich; VASIL'YEVA, O.V., red.; TSVETKOVA, S.V., tekhn.
red.

[Interesting questions in geography] Zanimatel'nye voprosy po
geografii. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv.
RSFSR, 1957. 59 p. (MIRA 11:5)
(Geography--Examinations, questions, etc.)

GROBSHTKYN, N.Kh.

"Amusing problems in geography" by B.A. Nagorny. Reviewed by
N.Kh. Grobshtein. Geog. v shkole 22 no. 3:88-89 My-Je '59.
(MIRA 12:11)

(Geography--Study and teaching)
(Nagorny, B.A.)

OKHAPKIN, F.P. (g.Kirov); YAKOVLEV, N.M. (g. Ul'yanovsk); GROBSHTEYN,
N.Kh. (Smolensk) RUTKOVSKIY, O.O.

Discussion of new geography programs. Geog.v shkole 22 no.6:
61-71 N-D '59. (MIRA 13:4)

1. 4-y shkola Alma-Aty. (for Rutkovskiy)
(Geography—Study and teaching)

GROBSHTEYN, N.

Seminar of superintendents of geography study rooms in the
institutes of post graduate training for teachers. Geog.
v shkole 23 no.5:85 S - O '60. (MIRA 13:9)
(Geography—Study and teaching)

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,
p 145 (USSR) 15-57-5-6700

AUTHOR: Grobshteyn, S. R.

TITLE: Perspectives for Off-Shore Petroleum Extraction
(Perspektiva razvitiya dobychi nefi na morskikh mestorozhdeniyakh)

PERIODICAL: V sb: Puti izucheniya gidrometeorol. rezhima i
osvoyeniya akvatoriy nefi. promyslov Kaspiysk. morya.
Baku, Azerb. in-t, 1956, pp 7-11

ABSTRACT: The number of off-shore wells in 1954 was 2.4 times
that of 1949; petroleum extraction increased by 3
times and now comprises 24 percent of all petroleum
extracted in Azerbaidzhan. Deep exploratory marine
wells are being drilled in ten areas; structural
exploration is being conducted in four areas. New
petroleum deposits have been revealed; the outlines

Card 1/2

15-57-5-6700

Perspectives for Off-Shore Petroleum Extraction (Cont.)

of old petroleum deposits have been made more precise. The basic petroleum deposits are being developed with the use of water injection. The net cost of extraction of off-shore petroleum is now no more than 60 percent of the average net cost of extraction of petroleum on land.

Card 2/2

N. A. Ye.

ALIKHANOV, B.N.; GROBSHTEYN, S.R.

Effectiveness of using appropriate drive methods in the
Neftyanne Kamni oil fields. Azerb.neft.khos. 35 no.4:5-9
Ap '56. (MLRA 9:10)

(Neftyanne Kamni--Petroleum engineering)

GROBSHTEYN, S.B.; ZAMANOV, B.A.; KULIYEV, I.P.; NEGREYEV, V.P.;
FARKHADOV, A.A.

Electrochemical protection in thin films of sea water and possibilities for using it to prevent corrosion of submerged portion of piles. Azerb.neft.khoz.36 no.2:38-41 P '57. (MLRA 10:4)
(Corrosion and anticorrosives)
(Oil well drilling, Submarine)

GROBSHTEYN, S.R.

Increasing oil extraction from the Sub-Kirmaki₂ horizon
of the Neftyanse Kamni. Azerb.neft.khoz. 36 no.7:24-28 (MIRA 10:10)
Jl '57.
(Apsheron Peninsula--Petroleum engineering)

GROBSHTEYN, S.B., Cand Tech Sci --(diss) "Certain problems
of ~~mining~~ ^{of petroleum} petroleum deposits (On the example of
the PK deposit, Petroleum Stones)." Baku, 1956, 14 p.
(Min of Higher Education USSR. Azerbaydzhan Order of
Labor Red Banner Industrial Inst im M. Azizbekov)
150 copies (KL, 50-58, 12b)

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GROBSHTEYN, S.R.

Analysis of the displacement of the oil-water boundary along the
sub-Kirmaki series in the Neftyanoye Kammi field, Azerb. neft. khoz.
37 no.1:25-29 Ja '58. (MIRA 11:6)
(Neftyanoye kammi—Oil well drilling, Submarine)

GROBSHTEYN, S.R.; GUKASOV, N.A.; KASIMOV, A.P.; MOVSUMZADE, M.S.

Sand removal from the filter area in wells when well-bottom pressure
is equal to or greater than the saturation pressure. Azerb. neft.
khoz. 37 no.9:26-28 S '58. (MIRA 11:12)
(Sand)

GROBSHTEYN, S.R.

Effect of screen pipe clogging on well productivity. Azerb.neft.khoz.
37 no.12:23-26 D '58. (MIRA 12:3)
(Sand)

GROBSHTEYN, S.R.; GUKASOV, N.A.; KASIMOV, A.F.; MOVSUMZADZ, M.S.

Determining the diameter of a lift in flush production. Azerb.neft.

khoz. 38 no.4:32-34 Ap '59.

(MIRA 12:7)

(Oil fields--Production methods)

MURAV'YEV, I.M., prof.; ARZUMANOV, Sh.K., inzh.; ARKHANGEL'SKIY, N.K.,
inzh.; BAZLOV, M.N., inzh.; GROBSHTEYN, S.R., kand.tekhn.nauk;
ZHUKOV, A.I., dotsent, MAKHMUDBERKOV, E.A., inzh.; MOVSESOV,
N.S., inzh.; MURAV'YEV, V.M., inzh.; NEGREYEV, V.F., kand.tekhn.
nauk; PLOTNI', S.G., kand.tekhn.nauk; PODGORNOV, M.I., inzh.;
RUBACHEV, G.M., kand.ekon.nauk; SULTANOV, D.K., inzh.; SHTER,
B.O., inzh.; SAVINA, Z.A., vedushchiy red.; POLOSINA, A.S.,
tekhn.red.

[Reference book on petroleum production] Spravochnik po dobyche
nefti. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi
lit-ry. Vol.3. 1960. 712 p. (MIRA 13:5)
(Oil fields--Production methods)

GROBSHTEYN, S.R.

Outlook for the development of petroleum production in submerged areas of the Caspian sea during 1956-1960 in connection with the lowering of the sea level and the ice drift. Trudy Okean, kom. 5:295-299 '59. (MIRA 13:6)

(Azerbaijan--Petroleum in submerged lands)

QROBSHTEYN, SOLOMON ROMANOVICH

Nekotoryye Voprosy Razrabotki Morskikh Neftyanykh Mestorozhdeniy. Baku, Baku
Azerneftneshr, 1960.

198 [1] p. Illus., Diagr., Graphs, Tables. 22 cm.

Bibliography: p. 197-[199]

GROBSHTEYN, S. S.

1470759

U.S.S.R. / Medicine - Rhinitis, Atrophic
Medicine - Blood Transfusion

May/June 1948

"Histomorphological Variations in the Mucous Membrane of the Nasal Cavities Before and After Treatment of Genuine Ozena With Aeroionization and Blood Transfusion," S. S. Grobshteyn, Dr Med Sci, Ear, Nose and Throat Chair and Chair of Path Anat, Leningrad Med Pediatrics Inst, 6 pp

"Vest Oto-Rino-Laringol" Vol I, No 3

Presents various data supporting value of subject method, and clarifying its effect on regeneration of the mucous membrane.

76759

GROBSHTEYN, S.S., doktor meditsinskikh nauk

Application of biological hemostatic preparations of blood in
otolaryngologic practice. Vest.oto-rin. 16 no.2:63-64 Mr-Apr '54.
(MLRA 7:6)

1. Iz otdeleniya bolezney ukha, gorla i nosa (sav. doktor meditsin-
skikh nauk S.S.Grebshteyn) bol'nitsy Oktiabr'skoy zheleznoy dorogi
i iz laboratorii sukhikh preparatov Leningradskogo instituta pere-
livaniya krovi.

(HEMOSTASIS,

*in otorhinolaryngol.)

(OTORHINOLARYNGOLOGY,

*hemostatic substances in)

GROSHTEYN, S.S., doktor meditsinskikh nauk

~~Results of application of preventive measures in angina and chronic tonsillitis. Vest.oto-rin. 17 no.2:21-24 Mr-Apr '55. (MLRA 8:7)~~

1. Iz otdeleniya bolezney ukha, gorla i nosa dorozhnoy bol'nitsy
Okt'yabrskoy zheleznoy dorogi.
(TONSILLITIS, prevention and control)

GROBSHTEYN, S.S., doktor meditsinskikh nauk

Use of a hemostatic sponge and a hemostatic tampon with antibiotics
in otolaryngological surgery. Vest. oto-rin. 18 no.5:26-28 S-0 '56.

(MLRA 9:11)

1. Iz oto-laringologicheskogo otdeleniya bol'nitsy Okt'yabr'skoy
Pul'naya dorozi i laboratorii sukhikh preparatov Leningradskogo
instituta perelivaniya krovi.

(OTORHINO-LARYNGOLOGICAL DISEASES, surg.

use of hemostatic sponges and tampons with antibiotics)

(TAMPONS

hemostatic tampons & sponges, use in otorhinolaryngol.
surg.)

GROBSHTEYN, S.S., doktor meditsinskikh nauk

Lipid deposits in the fibroelastic tissue of the tympanic membrane in atherosclerosis [with summary in English] Vest. oto-rin. 19 no.1:81-83
Ja-P '57 (MLRA 10:4)

1. Iz kliniki bolezney ukha, gorla i nosa Leningradskogo pediatricheskogo instituta (zav.-prof. D.M. Rutenberg) i otdeleniya bolezney ukha, gorla i nosa dorozhnoy bol'nitsy Oktyabr'skoy zheleznoy dorogi.

(TYMPANIC MEMBRANE, pathol.

lipid deposits in fibroelastic tissue of membrane in atherosclerosis) (Rus)

(ARTERIOSCLEROSIS, pathol.

lipid deposits in fibroelastic tissue of tympanic membrane) (Rus)

(LIPIDS, metab. same)

GROBSHTZYN, S.S., doktor med.nauk

Cases of foreign bodies in the bronchi. Vest.oto.-rin. 20 no.3:99-100
My-Je '58 (MIRA 11:6)

1. In otolaringologicheskogo otdeleniya Ob'yedinennoy bol'nitsy
Oktyabr'skoy zheleznoy dorogi, Leningrad.

(BRONCHI, for. bodies
rubber tube aspirated during anesth. (Rus))

GROBSHTEYN, S.S., prof.

Treatment of blocked pulmonary caverns by bronchoscopy and intratracheal use of drugs. Zhur. ush., nos. 1 gorl. bol. 20 no. 3:49-52 My-Je
'60. (MIRA 14:4)

1. Klinika bolezney ukha, gorla i nosa Chitinskogo meditsinskogo instituta.

(TUBERCULOSIS) (BRONCHOSCOPY)

G 30 4. I

B-5

CZECHOSLOVAKIA/General Biology, Genetics.

Abs Jour: Ref. Zh.-Biol., No 9, 1957, 35226

Author : Groch, J.; Hurny S.

Inst :

Title : The Influence of Vegetation on Some Elements of a Micro-climate and on an Organism

Orig Pub: Ceskosl. hyg., epidemiol., mikrobiol., imunol., 1955, 4, No 9,
462-465

Abstract: No abstract.

Card : 1/1

-13-

GROCH, Julius, inz.

Laboratory compensation pressure gauge. Vodohosp cas 11
no.3:336-339 '63.

1. Ceskoslovenska akademie ved, Ustav hydrologie a hydrauliky,
Slovenska akademie vied.

GROCH, Juraj

Some functional changes in pupils of the 10th form during work
in building industry. Cesk. hyg. 7 no.2/3:176-178 '62.

1. Ustav hygieny a a epidemiologie Lekarskej fakulty UPJS v Kosiciach.
(VOCATIONAL EDUCATION) (CENTRAL NERVOUS SYSTEM physiol)
(PHYSICAL FITNESS in adolescence)

GROCH, Juraj; za technickej spoluprace VRANAYOVEJ, E.; SARAYOVEJ, S.

Estimation of the time schedule for young school children. Cesk. pediat.
17 no.4:368-372 Ap '62.

1. Ustav hygieny a epidemiologie Lek. fak. University P. J. Safarika
v Kesciach, prednosta MUDr. R. Pospisil, CSc.

(CENTRAL NERVOUS SYSTEM physiol)
(SCHOOL HEALTH)

GROCH, J.

CZECHOSLOVAKIA

no academic degree indicated

Institute for Hygiene and Epidemiology, Medical Faculty, P.J. Safarik University
(Ustav hygieny a epidemiologie Lekarskej fakulty UPJS), Kosice

Prague, Coskoslovenska Hygiena, No 9, Oct 62, pp 522-527.

"Problems of Hygiene in Organizing the Daily Routine in School Day Hostels"

GROCH, J.

Our first experiences with the practical teaching of hygiene in the
6th course of general medicine. Cesk. hyg. 7 no.7:407-409 Ag '62.

1. Ustav hygieny a epidemiologic Lekarskej fakulty University P.J.
Safarika v Kosiciach.
(HYGIENE education)

GROCH, J.

Our experiences with the application of conditioned reflex to time in the study
of changes of cortical processes in school children. p. 525.

ČESKOSLOVENSKÁ HYGIENA. Praha, Czechoslovakia. Vol. 4, no. 9, Oct. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960.

Uncl.

EXCERPTA MEDICA Sec 17 Vol 5/12 Public Health Dec 59

3829. THE ORGANIZATION OF THE DAILY CURRICULUM AT SCHOOL AS A
HYGIENIC PROBLEM - Organizácia režimu dňa v škole ako hygienický
problém - Groch J. Kat. Hyg. LF UK, Košice - LEK.OHZ. 1959, 8/2
(87-97)

- The success of work at school depends largely on the degree to which the daily school curriculum corresponds to the physiological needs of the pupils of the different age groups. At school age, the decisive factor in the daily programme is the learning at school and at home. If the stress of learning is too great, the normal functional condition of the cells of the CNS is disturbed. A disequilibrium between the stimulatory and inhibitory processes develops, giving rise to a condition of reduced working capacity and fatigue. The fundamental requirement for good working capacity of the pupil is regular alternation of work and recreation. It is, therefore, necessary to keep strictly to the intervals between lesson hours, and between work at school and at home. These intervals should be rationally utilized. An excessive amount of homework leads, apart from unfavourable changes in the organism, to a reduction of the pupils' time of recreation in the open air and their sleep, which causes impairment of their development and general health. To avoid these undesirable changes, it is necessary to ensure a regular and adapted amount of homework. The daily programme at home should be in accordance with that at school. This is achieved by close co-operation with the school. The teachers and parents should realize the hygienic significance of the daily curriculum and should both be concerned with its maintenance. Only if the pupil's daily programme at home is organically associated with that at school can results be expected in the form of a general reduction of fatigue, improvement of progress, and normal development.

GRAZIA

- 2050

GROCH, J.; technicka spolupraca SABADOSOVA, S.; VRANAYOVA, E.

Hygienic problems of the organization of the daily regimen in school day-hostels. Cesk. hyg. 7 no.9:522-527 0 '62.

1. Ustav hygieny a epidemiologie Lekarskej fakulty UPJS, Kosice.
(SCHOOL HEALTH)

GROCH, J.

On the problem of the outdoor stay of pupils. Cesk. hyg. 8
no.4:199-201 My '63.

1. Katedra hygieny a epidemiologie Lekarskej fakulty UPJS,
Kosice.

(SCHOOL HEALTH) (RECREATION) (REST)

GROCH, J.

Concept of accuracy in electrolytic vessel measuring. El tech
cas 14 no.1:49-50 '63.

CZECHOSLOVAKIA

GROCH, J.

Chair of Hygiene and Epidemiology of the Medical
Faculty UNŠC (Katedra hygieny a epidemiologie Le-
karskéj fakulty UNŠC), Praha

Prague, Czechoslovakia Hygiene, No 4, 1963, pp 199-201

"On the Problem of Outdoor Record of 'pills'."

GROCH, J.

Sources of errors of measurement in electrolytic tanks. El tech
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The present status of hygiene textbooks at the schools of general medicine. *Ceskoslov. hyg.* 10 no.8:474-479 S '65.

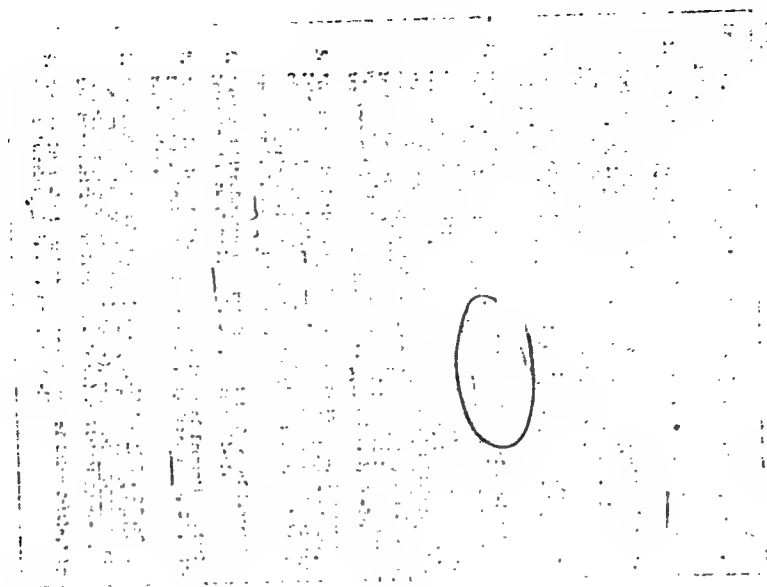
1. Katedra hygieny všeobecného lékařství Karlovy University, Praha a Katedra hygieny a epidemiologie Lékařské fakulty Univerzity P.J. Šafárika, Košice.

GROCH, Ladislav

Effect of the tetrachloromethane on the pathomorphological picture of the dog liver. Veterinarni medicina 6 no.12:913-916 '61.

1. Katedra pre patologicku morfologiu a fyziologiu, Veterinarni fakulta, Vysoka skola zemedelska, Brno.

GROCH, L.



GROCHAL, M.

Complex saving of coal and electric power; from the National Conference. p. 223.
(WIADOMOCCI ELEKTROTECHNICZNE. Vol. 16, no. 9, Sept. 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EASL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

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Separation of large pieces of run-of--ine coal. Pt. 1 (To be contd.)

P. 5. (ENERGETYKA) (Warszawa, Poland) Vol. 12, no. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) IC Vol. 7, No. 5, 1958

GROCHAL, Marian, mgr inz.

The problems of protecting the almosphere from pollution by industrial plants. Pt.2. Energetyka Pol 14 no.5:129-134 My '60. (EEAI 9:10)
(Air)

GROCHAL, Marian, dipl. ing. (Poland); JUCHANOWSKI, Jan, dipl. ing. (Poland)

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GROGHEV, L. V.

(Acad. Sci. Moscow)

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"Characteristics of Gamma Transitions in Light Odd-Odd Nuclei, formed in the Capture of Thermal Neutrons,"

papers submitted for presentation at the Intl. Conference on the Neutron Interactions with the Nucleus, 9-13 Sept. 1957. Columbia Univ. New York

first paper prepared with A. M. Demidov, V. N. Lutsenko and V. I. Polekhov,

second paper prepared with A. M. Demidov

GROCHMAL, S.

Physical education in tuberculosis sanatoria and preventoria
for children. *Pediat. polska* 27 no. 1:86-98 Jan 1952. (CLML 22:4)

GROCHMAL, Stanislaw

Surgical therapy of "spasticity" and rehabilitation of patients with spastic paralysis of the lower extremity. Polski tygod. lek. 14 no.44: 1958-1963 2 Nov 59.

1. (Z Oddz. fizykal. medyc. i rehabilitacji Szpitala: Highland View Hospital w Cleveland Ohio, St. Zjedn: kierownik Oddziału: dr Mieczyslaw Peszczyński prof. klinicz. fizyk: medyc. i rehabilitacji w Western Reserve University, Cleveland).
(PARALYSIS SPASTIC, surg.)

GROCHMAL, Stanislaw; PIOTROWSKA, Barbara

Effect of organized exercise on the physical condition of children
in preventoria. Gruzlica 28 no.6:463-470 Je '60.

1. Z Zespolu Naukowo-Badawczego Instytutu Gruzlicy w Krakowie
Kierownik: prof. dr St.Hornung
(TUBERCULOSIS prev & control)
(EXERCISE THERAPY)

GROCHMALICKA, J.

/ Vitamin C content of cabbage and its dependence on the vegetative development of the plant. Aleksandra Szwedkiewiczowa, Teresa Górniokowa, and Janina Grochmalicka (Acad. Med., Poznań, Poland). *Acta Pol. Med.* 10: 237-45 (1953) (English summary).--The greatest amt. of vitamin C is found in the parts of cabbage which are growing most vigorously, and it depends on the ripeness of the plant. Edward A. Ackermann

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CHIMIA ANALITYCZNA. Warszawa, Poland, "o. 8, August 1959.

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Uncl.

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(VITAMIN C chem) (BARBITURATES chem)

SMOCZKIEWICZOWA, A.; GROCHMALICKA, J.

On stabilization of ascorbic acid in solutions. Bull. soc. amis sci.
poznan [med] 11:81-90 '62.
(VITAMIN C chemistry)

GROCHOCKA, Krystyna

POLAND

BAC, Maria; GROCHOCKA, Krystyna

1. Dept. of Geological Cartography, Univ. of Warsaw (Zaklad Kartowania Geologicznego Uniwersytetu Warszawskiego) (for Bas?);
2. Laboratory of Geological Cartography, Dept. of Geological Sciences, Polish Academy of Sciences (Pracownia Kartografii Geologicznej Zakladu Nauk Geologicznych PAN), Warsaw (for Grochowska?)

Warsaw, Acta Geologica Polonica, No 3, July-Sept 1963,
pp 231-244.

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of Dolina Koscieliska in the Tatras."

GROCHOCKA-RECKO, Krystyna

Geological structure of Wyznia Swistowka Hollow. Acta geol
Pol 13 no.2:239-270 '63.

1. Laboratory of Dynamic Geology, University of Warsaw.